

Project Summary and Justification

Department	Public Works
Division	Watershed Management

The 2004-2010 Storm Drainage Capital Improvement Project is a combination of projects which require funding on an annual basis and projects requiring one-time funding for specific locations.

- Project 1** **City Subsidy to Storm Drainage Construction in Paving Districts**
Project 2 **City Subsidy to Storm Drainage Construction in New Subdivisions**
Project 3 **Preliminary Storm Drainage Study, Engineering, Emergency Construction and Right-of-Way and Easement Acquisition**

Projects 1, 2 and 3 reflect the continuing need to finance the construction of storm drain extensions required in conjunction with the construction of paving districts throughout the City; continuing the policy of not subsidizing storm drain system construction within new subdivisions and the need to provide funding for preliminary engineering, right-of-way and easement acquisition.

- Project 4** **Miscellaneous Minor Public Storm Drain Improvement, Such as Repairs to Physically Distressed Systems and Upgrading Small Aging Systems**

Project 4 is for the construction of minor storm drain improvements at various locations in the public storm drain system where deficiencies are causing local drainage problems or repairs are needed to existing facilities. Specific locations have not been identified. Funding for this project is also used for minor storm drain studies on an as-needed basis.

- Project 5** **Comprehensive Stormwater Basin Master Plans**

Project 5 provides continuing funding for “Comprehensive Stormwater Basin Master Plans”. These plans will be a tool to manage drainage quantity and quality, update floodplain maps, and prioritize future stormwater expenditures in each drainage basin with the City. LPSNRD will assist in providing funds for this project.

- Project 6** **Implementation of Basin Master Plan and Conservation Plan Projects**

Project 6 is the implementation of Basin Master Plan and Conservation Plan projects. These projects include bank stability measures, channel improvements, wetlands, engineering, land acquisitions, FEMA map updates, floodplain preservation, grade checks, and storage facilities within Master Planned Basins. LPSNRD will assist in providing funds for these projects. These projects are proposed to be funded by general obligation bonds which must be approved by voters of the City of Lincoln.

- Project 7** **Preliminary Engineering and Prioritization of Urban Drainage System Deficiencies**

Project 7 is the preliminary engineering and prioritization of the existing urban drainage system. This analysis will also update capital cost estimates. The initial evaluation of the entire urban drainage study was completed in 1966 and the last major update was in 1979. This engineering and evaluation is necessary to ensure that urban drainage system deficiencies are identified and prioritized so that the most urgent projects are completed first. Projects are planned to be prioritized in relation to structural integrity, drainage capacity, and flooding threats. This project is the second of two phases and is proposed to be funded by general obligation bonds which must be approved by voters of the City of Lincoln.

Project Summary and Justification (cont.)

Department	Public Works
Division	Watershed Management

Project 8 Dead Man’s Run Channel Stabilization

Project 8 is for specific channel rehabilitation on Dead Man’s Run and tributary at the University of Nebraska, Lincoln East Campus. Channel rehabilitation will include channel bank stabilization and grade controls. Funding is anticipated to be cost shared with LPSNRD, in-kind measures from UNL, and potentially other grant funding. This project is the second of two phases and is proposed to be funded by general obligation bonds which must be approved by voters of the City of Lincoln.

Project 9 Various Urban Drainage Construction Projects

Project 9 consists of urban drainage construction projects at various locations in the City where no system exists or to replace a structurally deficient system. Areas being targeted are in 17 specific drainage basins. These projects also include replacement of the existing storm drain systems that do not meet current standards. The lack of a proper storm drain system causes street and private property flooding during intense storm events. These projects are proposed to be funded by general obligation bonds which must be approved by voters of the City of Lincoln.

Project 10 Miscellaneous Repairs and Rehabilitations

Project 10 consists of miscellaneous repairs and rehabilitations to existing City storm drain systems. These are typically smaller than projects accomplished with CIP Item 9. These projects are proposed to be funded by general obligation bonds which must be approved by voters of the City of Lincoln.

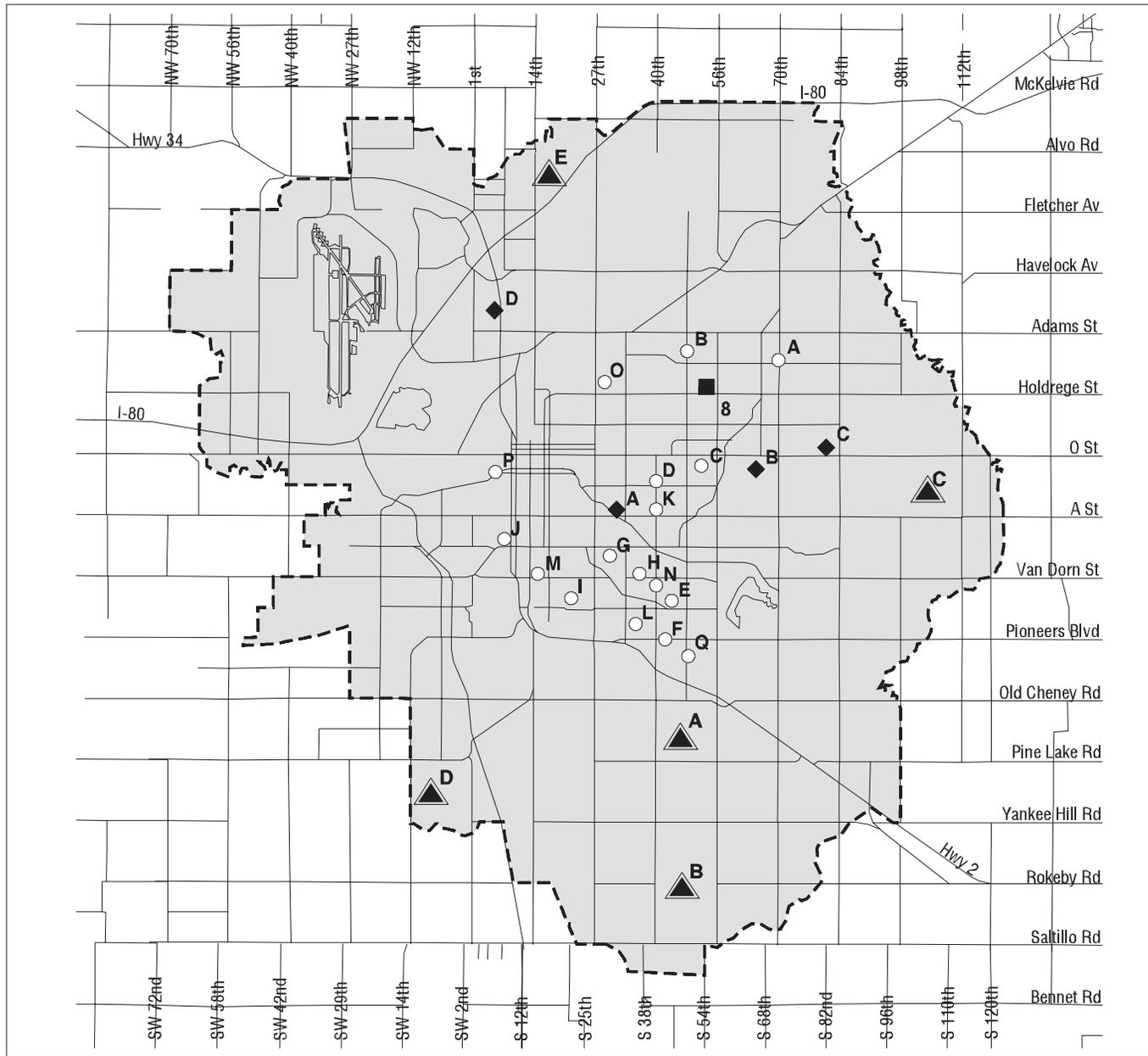
Project 11 Storm Drainage Rehabilitation on Parks and Recreation Department Property

Project 11 is identified for storm drainage projects on Parks and Recreation property, and are typically channel rehabilitation and scour protection projects. A preliminary assessment identifies over \$4 Million in design and construction needs in Antelope Park, Taylor Park, Herbert Park, and Roper Park. These projects would involve rip rap placement, live staking, composite revetments, grade controls, step and plunge pools, and crib walls. These projects are proposed to be funded by general obligation bonds which must be approved by voters of the City of Lincoln.

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Lincoln CIP 2004 - 2010

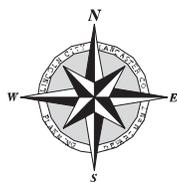
Public Works Watershed Management



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Lincoln's Future Service Limit Shown as Gray

Map prepared by
City - Co. Planning Dept
GIS Section



- ▲ Project 6: Implement Basin Master Plan And Conservation Plan Projects (Multiple Years)
- Project 8: Dead Man's Channel Stabilization (2004 - 2005)
- Project 9: Urban Storm Drainage Projects (Multiple Years)
- ◆ Project 11: Storm Drainage Rehabilitation On Parks & Recreation Property (Multiple Years)

List of Projects *Department: Public Works / Watershed Management*

Project Project
Number Title

- 1* City Subsidy to Storm Drainage Construction in Paving Districts
- 2* City Subsidy to Storm Drainage Construction in New Subdivisions
- 3* Preliminary Storm Drain Study, Engineering, Emergency Construction, and Easement Acquisitions
- 4* Miscellaneous Minor Public Storm Drain Improvements
- 5* Comprehensive Stormwater Basin Master Plans
- 6 Implementation of Basin Master Plan and Conservation Plan Projects
 - A Beal Slough
 - B Southeast Upper Salt Creek
 - C Stevens Creek
 - D Cardwell Branch
 - E Little Salt Creek
- 7* Preliminary Engineering and Prioritization of Urban Drainage System Deficiencies
- 8 Dead man's Run Channel stabilization
- 9 Urban Storm Drainage Projects
 - A 70th and Adams Basin
 - B 48th and Leighton Basin
 - C 52nd and O Basin
 - D 40th and L Basin
 - E 44th and Van Dorn Basin
 - F 36th and HWY 2 Basin
 - G 30th and South Basin
 - H 37th and South Basin
 - I 20th and Van Dorn Basin
 - J South and Park Basin
 - K 33rd and Washington Basin
 - L 33rd and HWY 2 Basin
 - M 16th and Harrison Basin
 - N 40th and Van Dorn Basin
 - O 28th and Leighton Basin
 - P 6th and N Basin
 - Q 48th and Pioneers Basin
- 10* Miscellaneous Repairs and Rehabilitations
- 11 Storm Drainage Rehabilitation on Parks and Recreation Property
 - A Memorial Park
 - B Taylor Park
 - C Herbert Park
 - D Roper Park

* Indicates project is **NOT** shown on the map.

2004 - 2010 CAPITAL IMPROVEMENT PROGRAM

DIVISION: WATERSHED MANAGEMENT

(1) PROJ. NO.	(2) PROJECT TITLE	(3) PROJ. PRIO.	(4) 3% Inflation per year											
			PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)											
			2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS
1	City subsidy to storm drainage construction in paving districts	A	40.7	GR	41.9	GR	43.2	GR	44.5	GR	45.8	GR	47.2	GR
2	City subsidy to storm drainage construction in new subdivisions	A	0.0		0.0		0.0		0.0		0.0		0.0	
3	Preliminary storm drain study, engineering, emergency construction, and right-of-way and easement acquisitions	A	14.4	GR	14.8	GR	15.3	GR	15.7	GR	16.2	GR	16.7	GR
4	Misc. minor public storm drain studies and improvements, such as repairs to physically distressed systems and upgrading small aging systems.	A	50.0	GR	106.1	GR	109.3	GR	112.6	GR	116.0	GR	119.5	GR
5	Comprehensive Master Stormwater Basin Management Plans (LPSNRD Funding)	A	50.0	GR	185.4	OF	191.0	OF	196.7	OF	202.6	OF	208.8	OF
			629.2	GO			797.0	GO						
	PROJECT 5 TOTAL		864.6		191.0		993.7		202.6		208.8		215.1	
6	Projects to implement approved Basin Master Plans & Conservation Plans to include channel improvements, stream stability measures, wetlands engineering, land acquisitions, FEMA Map updates, floodplain/floodprone preservation, grade checks, & storage facility projects recommended in Basin Master Plans and Conservation Plans (LPSNRD Funding) - Projects not in priority order	A	4,500.0	GO	100.0	GR	10,900.0	GO	106.1	GR	600.0	GO	112.6	GR
	A) Beal Slough B) Southeast Upper Salt Creek C) Stevens Creek D) Cardwell Branch E) Little Salt Creek		515.0	OF	530.5	OF	546.4	OF	562.9	OF	579.9	OF	597.4	OF
	PROJECT 6 TOTAL		5,015.0		630.5		11,446.4		669.0		1,179.9		710.0	
7	Preliminary engineering and prioritization of urban drainage system deficiencies	A	500.0	GO										
8	Dead man's Run Channel stabilization (LPSNRD Funding)	A	420.0	GO										
			400.0	OF										
	PROJECT 8 TOTAL		820.0											
9*	Urban Storm Drainage Projects to be identified prior to Bond Issues Projects (not in priority order)	A	3,300.0	GO			4,900.0	GO			5,200.0	GO		
	A) 70th and Adams Basin B) 48th and Leighton Basin C) 52nd and O Basin													

(5)	(6)	(7)			(8)	(9)	(10)	(11)						(1)		
								COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)								
								TOTAL FOR SIX YEARS (000's)	COST BEYOND 2009-2010 (000's)	PRIOR APPROPRIATIONS (000's)	YEAR	FS	TOTAL CAP COSTS (000's) (5)+(6)+(7)		COMP PLAN CONFORM	STATUS OF PLANS
263.3	Unknown	39.5	03-04	GR	302.8	GCP	1					263.3				1
0.0	Unknown	None			0.0	GCP	1									2
93.1	Unknown	14.0	03-04	GR	107.1	GCP	1		10.0	25.0		58.1				3
613.5	Unknown	100.0	03-04	GR	713.5	GCP	1		90.0			576.5				4
50.0	Unknown	229.0	03-04	GR												
1,199.6	Unknown	180.0	03-04	OF												
2,675.8		409.0			3,084.8	ICWP	2	2675.8								5
16,318.7	Unknown	2,000.0	02-03	GO												
3,332.1	Unknown	500.0	02-03	OF												
19,650.8		2,500.0			22,150.8	ICWP	2	500.0	1,600.0	2,900.0		14,650.8				6
500.0	None	500.0	02-03	GO	1,000.0	GCP	1	500.0								7
420.0	None	550.0	02-03	GO												
400.0	None	550.0	02-03	OF												
820.0		1,100.0			1,920.0	GCP	6		120.0			700.0				8
13,400.0	Unknown	6,122.7	02-03	GO	19,522.7	GCP	1	2,000.0				11,400.0				9*

2004 - 2010 CAPITAL IMPROVEMENT PROGRAM

DIVISION: WATERSHED MANAGEMENT

(1)	(2)	(3)	(4) 3% Inflation per year														
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS) (000's)														
			2004-2005	FS	2005-2006	FS	2006-2007	FS	2007-2008	FS	2008-2009	FS	2009-2010	FS			
	Urban Storm Drainage Projects (continued)																
	D) 40th and L Basin																
	E) 44th and Van Dorn Basin																
	F) 36th and HWY 2 Basin																
	G) 30th and South Basin																
	H) 37th and South Basin																
	I) 20th and Van Dorn Basin																
	J) South and Park Basin																
	K) 33rd and Washington Basin																
	L) 33rd and HWY 2 Basin																
	M) 16th and Harrison Basin																
	N) 40th and Van Dorn Basin																
	O) 28th and Leighton Basin																
	P) 6th and N Basin																
	Q) 48th and Pioneers Basin																
10	Miscellaneous Repairs and Rehabilitations to be identified prior to Bond Issue	A	365.7	GO				388.0	GO				411.8	GO			
11	Storm Drainage Rehabilitation on Parks and Rec Property to be identified prior to Bond Issue	A	257.5	GO				273.2	GO				289.9	GO			
	A) Memorial Park																
	B) Taylor Park																
	C) Herbert Park																
	D) Roper Park (LPSNRD Cost Share)		9.5	OF													
	PROJECT 11 TOTAL		267.0					273.2					289.9				
	FUNDING SOURCE BREAKDOWN:																
	GO (General Obligation Bond)		9,972.4		0.0		17,258.2		0.0		6,501.7		0.0				
	GR (General Revenue)		155.1		262.8		167.8		278.9		178.0		296.0				
	OF (Lower Platte South NRD)		1,109.9		721.5		743.1		765.5		788.7		812.5				
			=====		=====		=====		=====		=====		=====				
	DIVISION TOTAL		11,237.4		984.3		18,169.1		1,044.4		7,468.4		1,108.5				

(5)	(6)	(7)		(8)	(9)	(10)	(11)						(1)
TOTAL FOR SIX YEARS (000's)	COST BEYOND 2009-2010 (000's)	PRIOR APPROPRIATIONS (000's)		TOTAL CAP COSTS (000's)	COMP PLAN CONFORM	STATUS OF PLANS	COST BREAKDOWNS FOR SIX-YEAR EXPENDITURES (000's)						PROJ. NO.
		YEAR	FS	(5)+(6)+(7)			PRELIM PLANS	FINAL PLANS	LAND ACQUISITION	CONST	EQUIP / FURNISH	OTHER (EXPLAIN)	
1165.5	Unknown	355.0	02-03 GO	1,520.5	GCP	1		190.0			975.5		10
820.6	Unknown	250.0	02-03 GO										
9.5	Unknown	None											
830.1		250.0	02-03 GO	1,080.1	GCP	5		110.0			720.1		11
33,732.3													
1,338.6													
4,941.2													
=====													
40,012.1													

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